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APPLICATION N	O. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,935		10/01/2003	Taketoshi Aratani	0671.68504	7843	
24978	7590	07/20/2005		EXAMINER		
,	BURNS &		BUI, BRYAN			
300 S W A	ACKER DR					
25TH FL	25TH FLOOR			ART UNIT	PAPER NUMBER	
CHICAG	O, IL 6060	06		2863 DATE MAILED: 07/20/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/676,935	ARATANI ET AL.					
Office Action Summary	Examiner	Art Unit	1				
	Bryan Bui	2863					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on							
	action is non-final.						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims			•				
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 6</u> is/are rejected.							
7)⊠ Claim(s) <u>2-5</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form P	TO-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority document 							
Certified copies of the priority document							
Copies of the certified copies of the prior		ed in this National	l Stage				
application from the International Burea							
* See the attached detailed Office action for a list of the certified copies not received.							
Attackersont							
Attachment(s) 1) Notice of References Cited (PTO-892)	. 4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) \ Notice of Informal I 6) \ Other:	ratent Application (PT	U-132)				
I S. Patent and Trademark Office	-/						

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Makuuchi et al (US 6,700369).

With respect to claims 1 and 6, Makuuchi et al teach a system and method of testing magnetic recording medium or a magnetic head testing apparatus (figure 1), comprising: reference information storing means (figure 1, item 151) for holding a predetermined reference sampling period and a reference number of samplings; sampling means (figure 1, item 141 and figure 4, sampling data) for sampling reproduced data read out a plurality of times from a magnetic medium in said

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predetermined reference sampling period (figure 1, item 133, and figure 4); sampling number acquiring means (column 5, lines 54-55) for obtaining a sampling number of measured data from said reproduced data based on a result of sampling; sampling number ratio calculating means (column 6, lines 11-26) for calculating a ratio of said sampling number of said measured data and a reference sampling number. Makuuchi et al does not discloses sampling data re-acquiring means for changing said sampling period of said measured data and re-acquiring sampling data depending on said calculated ratio; and measured data overlap-displaying means for overlap-displaying said sampling data re-acquired from a plurality of measured data. Makuuchi et al, however, discloses means of the sector detection function for sampling the disc reproduction signals distributed by the disc reproduction signals distributor circuit 133 (figure 1) for sampling clocks are produced and outputted thereform and the mode change/timing controller portion 137 (figure 1) and outputting (displaying, and figure 1, item 160) the sampling data with phase difference (overlap-displaying) of N phases (column 18, line 62 to column 19, line 14 and figure 6). Therefore, it would have been obvious to one of ordinary skill in the art to modify Makuuchi et at teachings to include sampling clocks and the mode change/timing controller portion as taught by Makuuchi et al as an equivalent function provides sampling data re-acquiring means for changing said sampling period of said measured data and re-acquiring sampling data depending on said calculated ratio; and measured data overlap-displaying means for overlapdisplaying said sampling data re-acquired from a plurality of measured data as claimed in order to display the measurement values of the disc reproduction signal obtained in

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the data processing portion (figure 1, item 135 and figure 6).

Allowable Subject Matter

4. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

In combination with other limitations of the corresponding claims, the prior art fails to teach: wherein said sampling number acquiring means further comprises: average value acquiring means for obtaining each average value of a difference between peak phases of preamble and postamble from said reproduced data having preamble, measured data, and postamble; phase acquiring means for acquiring a peak phase, preamble obtained from said average value, and preamble in which a square sum of a phase difference of postamble from each said peak phase and said postamble phase; re-sampling period acquiring means for acquiring a re-sampling period from a phase difference between said acquired preamble and postamble and a predetermined number of bits therebetween; measured data phase difference acquiring means for determining a data start phase and a data end phase of said measured data from said sampling period acquired and then acquiring a phase difference thereof; and sampling number calculating means for calculating a sampling number of said measured data from said acquired phase difference.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Bui whose telephone number is 571-272-2271.

The examiner can normally be reached on M-Th from 7am-4pm, and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BB

7/18/2005

BRYAN BUI PRIMARY EXAMINED

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